

QUERY UniRef90\_A4TIR1 UniRef90\_Q1QEB8 UniRef90\_V9WLN1 UniRef90\_B7VU07 UniRef90\_B7V4S4 UniRef90\_R9V2R1 UniRef90\_W9H944 UniRef90\_E6WTD8 UniRef90\_B7RHB8 UniRef90\_Q0JZ81 UniRef90\_R7Y2G4 UniRef90\_U5VCV8 UniRef90\_UPI0002DFABCA UniRef90\_UPI00036D9BC9 UniRef90\_E9USS3 UniRef90\_V8R784 UniRef90\_UPI0003614ADD UniRef90\_L8N043 UniRef90\_W8X2Z9 UniRef90\_Q11Z93 UniRef90\_W9V8B2 UniRef90\_UPI00045EB59 UniRef90\_UPI00042B38D0 UniRef90\_V9ZW52 UniRef90\_B3PUW8 UniRef90\_K9TVC9 UniRef90\_B6BC67 UniRef90\_UPI0002EC5E11 UniRef90\_RODNG8 UniRef90\_UPI000237EA07 UniRef90\_Q7NSC5 UniRef90\_X7EAN5 UniRef90\_Q84K0 UniRef90\_G7UW1 UniRef90\_M5XSJ3 UniRef90\_E1T9N0 UniRef90\_UPI00046717D5 UniRef90\_A6VRT0 UniRef90\_UPI0002378B7F UniRef90\_UPI00039A5BCA UniRef90\_G8LQD4 UniRef90\_N9V5A8 UniRef90\_I3AGA9 UniRef90\_K8X0Z6 UniRef90\_S2FQM9 UniRef90\_A3XGD7 UniRef90\_A9SM89 UniRef90\_UPI000349823B UniRef90\_G8NVB4 UniRef90\_E8ZF56 UniRef90\_UPI00030F6656 UniRef90\_UPI0003054B8E UniRef90\_C6DDR0 UniRef90\_UPI00036975B6 UniRef90\_K8P2M9 UniRef90\_F4KRP2 UniRef90\_UPI00035E116D UniRef90\_UPI0003A15045 UniRef90\_D4I255 UniRef90\_I5BY58 UniRef90\_F7QJF1 UniRef90\_Q2BRN6 UniRef90\_A0A031GSG0 UniRef90\_A0B1H2 UniRef90\_B3E9H7 UniRef90\_UPI0002DA16C3 UniRef90\_UPI00036E07F8 UniRef90\_E8X3M9 UniRef90\_B4CYJ5 UniRef90\_M1BMA8 UniRef90\_W0ADJ9 UniRef90\_I3X3Z1 UniRef90\_Q76FS0 UniRef90\_D5ATQ6 UniRef90\_E3F0B9 UniRef90\_UPI00047A7CEA UniRef90\_S2J1A8 UniRef90\_K2SRT8 UniRef90\_B2TCR4 UniRef90\_F6F372 UniRef90\_L9PIM9 UniRef90\_UPI00029A41FC UniRef90\_UPI00037DAEEA UniRef90\_Q9Z3T1 UniRef90\_UPI00036DB990 UniRef90\_UPI00047CCAF1 UniRef90\_UPI0004117324 UniRef90\_C7BNR9 UniRef90\_S8CZ56 UniRef90\_B1G5A9 UniRef90\_A1K8Y0

1 A E K L F T P L K V G A G V T T L A P N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
K L F F S E T P L K K V G V G A T V T T L P N N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
D N T L F F E K P L V E K M G N G A T V T T L P N N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
S D T L F F E T P L V E K M G N G A T V T T L P N N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
S K L F F E T P L V E K M G N G A T V T T L P N N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
L L F S P L A Q V V G G A L L E L Q N N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
R L F F T P L R V V G G A L L E L S H N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
D P L F F S P L R V V G G A L L E L S H N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
S R L F F S P L R V V G G A L L E L S H N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
S E K L F F S P L V T V L G G A L L E L K N N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
D P L F F S P L H S L G G A L L E L P N N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
S L F F E P L I R V V G G A V E L T T P N N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
S N L F F N P L I R V V G G A V E L T T P N N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
D A L F F Q P I K R L G G S L P L P S N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
P S L F F S P L V R L G G S T T L P S N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
S L F F S P L I A L G G P Y T T L A H N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
R L F F S P L I K L G G D D I E L A N N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
S N L F F S T V K L G G R Y T T L A N N R R V V F M A P L L T R L R S S I I E E P P G G D D I I P P T P L L M M  
P T L F F D P L Q L G G D L S L P N N R R I I L M A P L L T R R C R A A E P G G R V L P G E L L M M  
S R L F F S K T T L G S L P L Q N H L L M S P L T R N R R A T P G N I T P N A L L M M  
L F F D P L R L G G R Y D L A H R V I M A P L L T R M R A A V D A N V P N D L A R  
S R L F F S P L R L G G R Y D L A H R V I M A P L L T R M R A A V D A N V P N D L A R  
P L L T P Y K F G K F L S H R V V V L A P L T R S R S S I I E E P P G G D D I I P P T P L L M M  
D P L F F C P L R L G G Q L H L K N N R I V M P L T R S R S S I I E E P P G G D D I I P P T P L L M M  
K L F F E P L R L G G Q L H L K N N R I V M A P L L T R N R R S P G G A I V P R E L L N  
S Q E L F F S A T A G A L I E L P N N R I I M A P L L T R R N R A G E D G T G E V L D R H  
I F F D P T K L G G A L I E L P N N R I I M A P L L T R R C R A D E P G G R V P N A L L M  
L F F T P V S I G A L I E L P N N R V V M A P L L T R S S S S T Q Q P G G D I V P N A M M  
L F F D S L T L G G P Y T T L P N N R I V L P L T R S S S S S T Q Q P G G D I V P N A M M  
A D K L L T P L T M G A V A L S N N R I V M A P L L T R L R N I E P G G D V L P G D L I A  
P K L F F H P A R A G Q L I E L K N N R I V M A P L L T R N R R A S D G N I L P M D I H  
P L L T P Y K M G K F N L S H R V V L A P L L T R R C R S Y G N V P Q P H A A  
A S I L L F S P T T L G G D I E L A N N R V V M A P L L T R N R A I E G C V P T P L A  
P L L T P Y K M G K F N L S H R V V L A P L L T R Q M R A K D P N I L P Q P H A A  
S E L L F F S P F R L I G G D F T L A N N R I V M A P L L T R R R A T H G T G R A A N A L L M  
S L F F S P V K L G G D I E L P N N R I V M A P L L T R T R A A E D D S V H H A L L M  
N L F F S P V K L G G D I E L P N N R I V M A P L L T R T R A A E D D S V H H A L L M  
E K L F F S G I K A G A I E L K N N R I V M A P L L T R N R R A R A E D D S V H H A L L M  
S H L F F S P L T V G A V T T P N N R I W M A P L L T R S R A G Q P G G D V P S E L L N  
S K L F F T P Y N L G S G M Q L K N N R V V M A P L L T R S R T R A M N D P G D V V A T E L L M  
D P L F F P L R L G S P L A L A N N R I V M A P L L T R S R A A S T G D V V A T E L L M  
Q T L F F Q P Y T L G S L P L A L A N N R I V M A P L L T R N R R A S T G D V V A T E L L M  
L F F E H Y N L G S L P L A L K N N R I V M P L T R S R S T G K D D G D I I A T E M M  
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K P L F F S P Y Q L G A F K L S H R I V L A P L L T R R C R H T T P Q P H A A  
D K L F F T P Y Q L G A F K L S H R I V L A P L L T R N R R A T N D D L M V E Y Y  
K T L F F S P L R V G P L A L S H R V V M A P L L T R L R S Q I P G D D V P V D L L M  
L F F E P T T A G D I A L K N N R S V M A P L L T R N R A P D A N V P T P L L M  
L F F E A Y Q L G D I K L K N N R S V M A P L L T R S R A V D D D G V P A D I T  
S H F F D P V R I L G R Y V L P N N R I V M A P L L T R S R A S G D D D G V P A D I T  
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L F F D P L R I G G D L L E L P N N R I V M A P L L T R C C R A D D R G N V P N D M M  
S A S L Y S P L K V G P Y Q L N H R V V M A P L L T R M R A Q A D N A P H G L N V  
Q P L L T P Y T L G N L L E L K N N R I V M A P L L T R S R T P P E K A P H G L N V  
L L L K Q Y T L N D L L E L K N N R I V M A P L L T R S R A D N P P E K A P H G L N V  
H L F C P I S V G P L S L P H R V A M A P L L T R S R A G Q P P G G N I P T D M N  
L F S P L N D M G P I T T L A N N R V M A P L L T R C R S E Q P P E K A P F D H  
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S N L F F S P A T L G S V E L K N N R I L M A P L L T R R S R A E A N H V P G E L L M  
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K L F F S A Y T L G T V K L Q N N R V V M S P M T R S R A T D D N L V P N S L M  
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P S L F F D P V K I G D I E L S S R I V M A P L L T R C R A D E D G R V P S D L M  
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L F F S Y Q L G K L V L K N N R A V M A P L L T R A R A P Q N V P A P E M  
K I F F S K F N L G S L E L Q N N R V V M A P L L T R S R A E A N N I P N Q L M  
S Q A L F F S P V K V L G A N T L K H R V V L A P L L T R F R A T P E A V P T D L Q A  
S S L F F S P Y T L G A H S L N N R I V M A P L L T R A P A V N L N P D A T T  
S S L Y D P L T M G K L Q L K N N R V F M A P L L T R N R A R P D G V P G S M A  
S S L F S S I E I G D A T S P N N R I F M A P L L T R N R A E M D A D G V P S E L M M  
S S L S T A V Q I G D R Y T L R N N R M V M A P L L T R S R A N D A D G V P S E L M M  
S L F F D P L N I G E F Q L P N N R I V M A P L L T R N R S S G P G G R V P N A L L M  
S T L F F T P T Q L G A L L S L K N N R V I M A P L L T R S R A T R E G N L P N A L L M  
P T L F F D P L T L G G L Q S P N N R V L M A P L L T R R G R A T R E D H V P G P L V  
S N H L F F Q T Y N Q L G A L T L Q N N R A V M A P L L T R S R A T R N I V P N D L M  
N L F F E P Y N Q L G A I H A P N N R V L M A P L L T R S R A T R D H V P N D L M  
P T L F F D P V R I L G G D L D L P N N R I I M A P L L T R T R A V G E G R I P N A L M  
P L L T P Y K L G N F N L S H R I V L P L L T R N R S Y D T I P Q P H A A S  
P S L F F P I K L G R H T L R N N R I V L P L L T R N R A A P N A V P A A I T  
L F F D P I A A G D L Q L A N N R I A M A P L L T R N R A P N A V P A A I T

QUERY UniRef90\_A4TIR1 UniRef90\_Q1QEB8 UniRef90\_V9WLN1 UniRef90\_B7VU07 UniRef90\_B7V4S4 UniRef90\_R9V2R1 UniRef90\_W9H944 UniRef90\_E6WTD8 UniRef90\_B7RHB8 UniRef90\_Q0JZ81 UniRef90\_R7Y2G4 UniRef90\_U5VCV8 UniRef90\_UPI0002DFABCA UniRef90\_UPI00036D9BC9 UniRef90\_E9USS3 UniRef90\_V8R784 UniRef90\_UPI0003614ADD UniRef90\_L8N043 UniRef90\_W8X2Z9 UniRef90\_Q11Z93 UniRef90\_W9V8B2 UniRef90\_UPI00045EB59 UniRef90\_UPI00042B38D0 UniRef90\_V9ZW52 UniRef90\_B3PUW8 UniRef90\_K9TVC9 UniRef90\_B6BC67 UniRef90\_UPI0002EC5E11 UniRef90\_RODNG8 UniRef90\_UPI000237EA07 UniRef90\_Q7NSC5 UniRef90\_X7EAN5 UniRef90\_Q84QK0 UniRef90\_G7UW11 UniRef90\_M5XSJ3 UniRef90\_E1T9N0 UniRef90\_UPI00046717D5 UniRef90\_A6VRT0 UniRef90\_UPI0002378B7F UniRef90\_UPI00039A5BCA UniRef90\_G8LQD4 UniRef90\_N9V5A8 UniRef90\_I3AGA9 UniRef90\_K8X0Z6 UniRef90\_S2FQM9 UniRef90\_A3XGD7 UniRef90\_A9SM89 UniRef90\_UPI000349823B UniRef90\_G8NVB4 UniRef90\_E8ZF56 UniRef90\_UPI00030F6656 UniRef90\_UPI0003054B8E UniRef90\_C6DDR0 UniRef90\_UPI00036975B6 UniRef90\_K8P2M9 UniRef90\_F4KRP2 UniRef90\_UPI00035E116D UniRef90\_UPI0003A15045 UniRef90\_D4I255 UniRef90\_I5BY58 UniRef90\_F7QJF1 UniRef90\_Q2BRN6 UniRef90\_UPI00031GSG0 UniRef90\_A0B1H2 UniRef90\_B3E9H7 UniRef90\_UPI0002DA16C3 UniRef90\_UPI00036E07F8 UniRef90\_E8X3M9 UniRef90\_B4CYJ5 UniRef90\_M1BMA8 UniRef90\_W0ADJ9 UniRef90\_I3X3Z1 UniRef90\_Q76FS0 UniRef90\_D5ATQ6 UniRef90\_E3F0B9 UniRef90\_UPI00047A7CEA UniRef90\_S2J1A8 UniRef90\_K2SRT8 UniRef90\_B2TCR4 UniRef90\_F6F372 UniRef90\_L9PIM9 UniRef90\_UPI00029A41FC UniRef90\_UPI00037DAEEA UniRef90\_Q9Z3T1 UniRef90\_UPI00036DB990 UniRef90\_UPI00047CCAF1 UniRef90\_UPI0004117324 UniRef90\_C7BNR9 UniRef90\_S8CZ56 UniRef90\_B1G5A9 UniRef90\_A1K8Y0

50 60 70 80

G E Y Y R Q R A S A G L I I S E A T T Q I V S A F Q Q A K G Y A G A P G G L H S P E Q Q Q L A N  
A E Y Y R Q R A S A G L I I T E A T T Q I V S A F Q Q A K G Y A G A P G G L H S P E Q Q Q L A N  
G E Y Y S Q R S T A G L I I V T A S E A T T Q I V S F S Q A Q K G Y A G A P G G I F T T E D D T T  
A A Y Y A Q R R S T A G L I I T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A T Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A L Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A E Y Y R Q R A S A G L I I T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A E Y Y G Q R R A T N G G L I I T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A E Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
V E Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A E Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
R D Y Y V Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A E Y Y G Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A T Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A E Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A D Y Y R Q R R S A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A E Y Y R Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
V T Y Y E Q R R A T A G L I I T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A L H Y E Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
V E Y Y R Q R R A T A G L I I T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A Q Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A E Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
E Y Y G Q R R A S S G G L I I A E A T T Q I V S S S A Q Q G Y A P A T P G G I H S A A Q V V E E  
L Y Y S Q R T S R G G F M I S E A T T Q I V S S D T T A Q Q G Y A H T P G G I W T S K E A Q V V E A  
A T Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
V E Y Y R Q R R A T A G L I I T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A E Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A E Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
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A T Y Y R Q R R S A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
K E Y Y R Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
V E Y Y T Q R R A D A G L I I T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
V Y Y S Q R R A T R G G L I I T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
I E Y Y R Q R R A S A G L I I A E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
L Y Y S Q R T S S A G L I I A E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A E Y Y G Q R R A S A G G L I I E A G S P V S S S D T A H G L P A T P G G I W T S R E A Q V V A  
A E H Y R Q R R A S A G L I I A E A S Q I V S S S Q Q G S Q G Y A Y T P G G I Y S P E A Q V V A  
A E Y Y A Q R R A S T G L I I T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A K Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A R Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A L Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A T Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A T Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
S A Y Y R Q R R A T A G F M I T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
V E Y Y T Q R R A S A G L I I T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
L Y Y A Q R R T T R G G L I I A E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
R Q R A K P S T R G M G L I I T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A E Y Y G Q R R A S E G G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A T Y Y R Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A T Y Y G Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A T Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A T Y Y R Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A E Y Y A Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
E Y Y S Q R A T K G G L I I A E A S P V V T T G R G N P R T P G G I Y S R R E Q I I E  
V L Y Y T Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A T Y Y R Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
T T Y Y R Q R R A S A A L I I S E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
V E Y Y R Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
A T Y Y K Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
V E Y Y G Q R R A S A G L I I T E A S Q V S S S Q Q G Q G Y Q D T P G G I Y T K E Q V V A  
A Q H Y A D R R A S A G L I I A E A T T A M E N C C A F N E P G G I W S E Q A Q V E E  
A E Y Y T Q R R A S A G M I I S E A T A V T P Q G V G Y A D T P G G I Y S E E Q V E E  
A R Y Y A E R A S A G L I I T E A T S V T P Q G V G Y A D T P G G I W S D E Q V V E  
A D Y Y G Q R R A S A G L I I T E A T S P S P N G L G Y A R P G G A F S P Q Q T A  
V L Y Y A Q R R A S A G L I I T E S E G A P I S R E G C G Y L F N P G L I Y N D A Q V T Q  
R E Y Y S Q R R A S A G L I I T E A T S V T P M G V G Y P N T P G G I W N Q A Q V T A  
A E Y Y A Q R R A S A G L I I T E A T P V S P M G V G Y P Q V P G I W S K E Q T E R  
A E Y Y R Q R R A S A G L I I V T E A T S V V D P M G V G Y A D T P G G I W S A E Q M R  
L Y Y S Q R T T K G G L I I A E G C G I S D T A H G Y K D T S G I W T Y E Q V V E  
A L Y Y G Q R R A S R G G L I I T E A T T N I T S E Q A R G Y P A A P G I H S T A Q I I A  
A E Y Y S Q R R A S A G L I I V T E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
Y Y A Q R R A S Q G G F L I I A E A T T Q I V S S S S D R Q G A K G Y A F T P G G I V F Y T S E A Q Q V Q K  
V E Y Y R Q R R A T A G L I I V T E G A Q I S P V G Q G Y A W T P G G I H S E A Q V A  
A R Y Y A Q R R S G V G L I I V T E G T V V S A S A S G T V D C P G G I W S E A Q V A  
S D Y Y G Q R R A S A G L I I T E A T A P S A N G L G Y A R P G G I Y N K E A Q I K  
K Y Y E A Q R A S D G G L L V T E A T F P S R L A G A Y P Q A P G I Y N K E A Q I K  
A L Y Y A Q R R A S A G L I I V T E G L P I S R E A R G A Y I P G G I Y T H A Q I V K  
A V Y Y S Q R R A S A G L I I V T E A T T Q I V S P M G K G Y V N T P G G I H T D E Q V V A  
A L Y Y G Q R R A S A G L I I V T E G V F N P S P R G R G Y Y R V P G G A Y T A A H R T  
V T Y Y R Q R R A T A G L I I V T E G V F P S A M G K G Y V R T P G G I H T D A Q V V A  
R E Y Y I Q R R A T A G L I I S E A T S V A P S G V G Y P H T P G G I W S A E Q V V E  
E Q Y Y R L R A E A G L I I T E A T S P S P N G L G Y A R P G G I F N S E Q V V E  
I E Y Y T Q R R A S A G L I I T E A T T G I T P N E G L G W P Y A P G I W S D E Q V V E  
V E H Y R Q R R S L G L I I V T E G T Y P S H A G Q G F P G Q P G L V T P E Q I D  
V T Y Y Q R R A S A G L I I T E A T S P S P N G L G Y A R P G G I F N S E Q V V E  
A D Y Y R Q R R A S A G L I I V T E A T T G I V S P R O G L G W A F A P G L W S E E Q V V A  
A E Y Y A Q R R A S A G L I I S E A T T S V T P Q G V G Y A N T P G G I W S D E Q V V A  
V Y Y S Q R R A T P G G L I I A E G A T I V S P S A Q Q G Y P H T P G G I W T S D E H V K  
A L Y Y G Q R R A G F M I S E G A Q I S P S A Q Q G Y A W T P G G I W S D E Q V V E  
A T Y Y A Q R R A S A G L I I S E A T A L S Q Q G Q G Y A D V P G L Y G A D Q I A



QUERY UniRef90\_A4TIR1 UniRef90\_Q1QE8B UniRef90\_V9WLN1 UniRef90\_B7VU07 UniRef90\_B7V4S4 UniRef90\_R9V2R1 UniRef90\_W9H944 UniRef90\_E6WTD8 UniRef90\_B7RHB8 UniRef90\_Q0JZ81 UniRef90\_R7Y2G4 UniRef90\_U5VCV8 UniRef90\_UPI0002DFABCA UniRef90\_UPI00036D9BC9 UniRef90\_E9USS3 UniRef90\_V8R784 UniRef90\_UPI0003614ADD UniRef90\_L8N043 UniRef90\_W8X2Z9 UniRef90\_Q11Z93 UniRef90\_W9V8B2 UniRef90\_UPI00045EB59 UniRef90\_UPI00042B38D0 UniRef90\_V9ZW52 UniRef90\_B3PUW8 UniRef90\_K9TVC9 UniRef90\_B6BC67 UniRef90\_UPI0002EC5E11 UniRef90\_RODNG8 UniRef90\_UPI000237EA07 UniRef90\_Q7NSC5 UniRef90\_X7EAN5 UniRef90\_Q84QK0 UniRef90\_G7UW11 UniRef90\_M5XSJ3 UniRef90\_E1T9N0 UniRef90\_UPI00046717D5 UniRef90\_A6VRT0 UniRef90\_UPI0002378B7F UniRef90\_UPI00039A5BCA UniRef90\_G8LQD4 UniRef90\_N9V5A8 UniRef90\_I3AGA9 UniRef90\_K8X0Z6 UniRef90\_S2FQM9 UniRef90\_A3XGD7 UniRef90\_A9SM89 UniRef90\_UPI000349823B UniRef90\_G8NVB4 UniRef90\_E8ZF56 UniRef90\_UPI00030F6656 UniRef90\_UPI0003054B8E UniRef90\_C6DDR0 UniRef90\_UPI00036975B6 UniRef90\_K8P2M9 UniRef90\_F4KRP2 UniRef90\_UPI00035E116D UniRef90\_UPI0003A15045 UniRef90\_D4I255 UniRef90\_I5BY58 UniRef90\_F7QJF1 UniRef90\_Q2BRN6 UniRef90\_UPI00031GSG0 UniRef90\_A0B1H2 UniRef90\_B3E9H7 UniRef90\_UPI0002DA16C3 UniRef90\_UPI00036E07F8 UniRef90\_E8X3M9 UniRef90\_B4CYJ5 UniRef90\_M1BMA8 UniRef90\_W0ADJ9 UniRef90\_I3X3Z1 UniRef90\_Q76FS0 UniRef90\_D5ATQ6 UniRef90\_E3F0B9 UniRef90\_UPI00047A7CEA UniRef90\_S2J1A8 UniRef90\_K2SRT8 UniRef90\_B2TCR4 UniRef90\_F6F372 UniRef90\_L9PIM9 UniRef90\_UPI00029A41FC UniRef90\_UPI00037DAEEA UniRef90\_Q9Z3T1 UniRef90\_UPI00036DB990 UniRef90\_UPI00047CCAF1 UniRef90\_UPI0004117324 UniRef90\_C7BNR9 UniRef90\_S8CZ56 UniRef90\_B1G5A9 UniRef90\_A1K8Y0

130 140 150 160

A S A L N A N T R T S L R D E N G N A V R V D T T T P R A L E L D E E I P G G I V N  
P S A I A A D T R T T S L R D E N G N A V R V D T T T P R A L E L D E E I P G G I V N  
A S D V H V D G V R T S L R D E N G N A V R V D T T T P R A L E L D E E I P G G I V N  
S A L S P V D A Q V W I V D P E T N G Q A L V R V E A T T P R A L E L D E E I P G G I V N  
S A L A P V E T Q V W I S D E N G N G N M V D C I Q P R E M T Q A D I D R R V V Q Q D  
P S P I Q A K A Q V F I A D D E N G N G S M A P A D A P R E M T Q A D I D R R V V Q Q D  
P S A L P A D A R T T L R D D E Q G N L V R V E T L R V E T S E N E I D I A G I V V A  
P S P V P A A G T H M T R T F E P V P F E T P R A L L R L D E E I P G G I V V G A  
P S P L V A E G A N F V R P D G S A G N E P T S L P R A L L R L D E E I P G G I V V G A  
P S A I T A D V K T F T A D G F E P T S E P R A L L R L D E E I P G G I V V G A  
S A I P A H G V N V F V A D Q D G K P G F V Q A S H P R A L L R L D E E I H A I V V D E  
S A S A P Y R N R T T V R G E D G T P T R V D C P T P R A L L R L D E E I A G I V I D  
P S A I A A P G K T F I V D E Q G N G V W G D V P V P R A L L R L D E E I A G I V I D  
S A L K A E N V K V F I D N G T D E P G F V D V V E P R E M T K E E I K N V V A D D  
S A L A P D A T V W I V D P A T G E D G T P S M L P C P V P H A L L T T S A E I E A D V D  
S A S A L P Y R N R T T V R G E D G T P T R V N C P T P R A L L R L D E E I E A D V D  
P S A L P V P G K T F I V D E Q G N G V W G D V P V P R A L L R L D E E I A D I V E E  
A S A I Q A K S K T Y L V E N E D G T F A E T S E P R A L L R L D E E I P G Q I L E E  
P S A I A P E G E V A T Y T G M K P Y V T P R A L L R L D E E I P G Q I L E E  
P S A L Q P A G T V S L V R P K K A Y V T P R A L L R L D E E I P G Q I L E E  
P S A V A A A G D M Y T D A E G L K P N A L P Q A M T E A D I K T A I V E E  
P V A G A C P G E M Y T D T L G L Q P F S P A R A M D E A G D I K T S R A V E  
P S P I A T K S G T A L T A D W K P V P Y E T P R A L L R L D E E I P I T I V E E  
S T D K S L T P Q I R A N G V D I A Q F S P P R R L R T Q A D I D A Q I V V N G  
S A I K A Q G V K V F V D N G S D A P G F V E T V T P R A M T Q A D I D A Q I V V N G  
S T N R V A K A K T Y L V N A D G S G S F A D T S E P R A L L R L D E E I P G G I V V E  
P S A I A P S E G M A T Y E G E K P Y T A K P Q A L L E T A E I P G G I V V E  
S T D A A A E A Q T F T H E G F V P T A K P Q A L L E T A E I Q R V I V A  
S A I A A K G H V S L V R P K A D Y P V P R A L L E T A E I A D I V I D E  
S A I A P D A T V W I V D P E T G K G G M V E C P V P R A L L E T A E I A R I V V Q  
P S I L P A E N V K V F V E T G P G Q G A L T L P S A P R A L L T T A E I V K E L V V Q  
P S A I Q A D S R T N I R A A D G S L V R E Q C D T P R A L L E I E E I E D I V E E  
P S A I R A E A P T F D G E K M V D V S E P R A L L R L D E E I P Q I I V D  
S T D K Q I T P D D S G M V Y S P R R L R T D E E I P Q I I V D  
P S A I G A N A Q T F T A N G M E Q V S Q P R A L L R L D E E I P Q Q I I V N Q  
C T D K P L P Q L L T N G V D I A Q Y T P P R R L K T D E E I V J A V V V Q  
P S A I A P R G Y A M S A D F R P V P Y E A P R A L L S T K T E V J A V V V Q  
P S A I A T T K Q V A I E T G A A D C S A P R A L L E L G E I P G L I V A  
S A I A I D G E T H T P E G K K P Y A V P R A L L T V E E I K D I V N A  
P S A I G A K A K T F D G E Q F V E T S E P R A L L T V E E I A G I V V A  
P S P V R E K T E C F V V L P D G T P A Q I P V I D L P R E L S Q R E E I R R R I I E  
A T V Q A V N T V F A L T E S G E P G P V V P S Q P R A L L E T A E I V R R V I T A  
A S A L R A E G V R V F V D K E G A P G F V E T V T P R A L L E V Q E I R A D V V Q  
P S A I R A E T K T F V N N G F S D V S E P R A L L E T A E I K Q I V D Q  
S S A I Q F V D T E G R G P E D G V G E M V Q H S M P R A L L E T A E I A G I V V Q  
P S A L K A T A V K V F I E T G P E S G A A D P S M P R E L T T A E V R E L V E  
S A V N P A K A Y T P E G F K E T E E P R A M T L E E I K Q T Q  
S S S Q T C T S D K I Y L P Q A D G A V E C S T P P L E I H A E A Y V D  
S T R K P I A N S K T Y I A G G F A P T S A P R A L L T V E E I A A T V Q  
S V V P F E G I V V T R N G F V P P S P H R A L L E I E E I P K L I V G  
P S A V I A K T K T V L I Q D G V P T F V E T S E P R A L R A D E L P K L I V G  
P S A I A E G Q M Y T D Q E G M K E N D L Q E M T I N D E I H E A I V D  
P S A I R P D G Q A W T P V G Q V D F V T P R A L L E T A E I A G V V D E  
P S I P A T N V R V F I E T G P G E G E L T S P S V P R E L L A T V E I V K E L V E  
S A V K P A G H V S L V R P Q K E Y V T P R A L L E I E E I P E I V E E  
P S A V P I S G N F T A M T A D G K Q V P Y E T P R A L L E T S E I A G I V E E  
P L K A E G K A F T A T G F K E Y V T P R E L S I A E I Q S L I D  
P S A L N P I N E K S Y T S E G F K D T V T P K E M S I E I K Q T V Q  
P S A L P V P G K T F V T D P D G N G I W A D I P V P Q A L T A A G V A E I V A  
P S A A A T G V R V F I E T A P G E G L L T D P E T P R A L L S T A E I V K E L V A  
S A L P N A Q S N A Y A W I T D G Q P G V P Q A S T P R A L L D T D E V R R V I T A  
P S A I R A N T K T F V I G G A F A D V S E P R A L L E L N E I P G I V D  
S A I A I E D E V Y T R E G K K P Y T V P R A M T L E E I P S D V I A  
P S A V K P A G H V S L V R P Q K E F V T P R A L L D V E I P G G I V A  
P S A I A A G G N V S L V R P P R F V T P R A L L E L D E I P G G I V A  
P S A C A L S G K I W T D S Q G E Q P Y D P P R E M R L H E I E Q Q I  
S A V T A A Q S N A Y A W I T D G Q P G V P Q A S T P R A L L D T D E V R R V I T A  
S A I A P A G H I S L V R P E R P F T Q P R A L L E L S E M P A I V E E  
S A I A P A G T V T L L R P K K E F G V P R A L L A N D E I K H V I A  
S A I A A K G H V S L V R P E K P F V T P R A L L D E I P Q I V A  
C T D K P S K P L I C S D V R D V A Q F P P R R L R T D E I P Q I V A  
P S A V L P E G L S H I D A S G E P A D L V L P H A L L K D E I D G I V V  
P S A I R A E T K T F V N N A F V D V S E P R A L L A L D E I A G I V V  
S T D K S L T S N E E Q Q F T A P R R L R T D E I P D L V N  
S A L S A A S K T F D G K G F V E T G M P R E M T E E I E R T F L  
A S A K Q A Q G A M Y V R H P D G T H G F V P A S V P H A L L T I D E I A G V V E  
P S A I A L N G E M Y T D Q N G L Q P Y P V P R E M T R E D I I Q A Q N  
A S D I P C P G K T M Q G T D Y E V P R A L L T I D E I K S L V G N  
S V A K V A D A Q T V L D D A G A P A R A P Q S M P R A L L E S H E M P R L V N  
P S A I R A K S Q T V T A S G F V D V I S T P R A M T A T D I L Q T I G  
P S A V P P S P T F R G M S Y G C P K P D A P Y P T P R P L E T S E V A G I V T  
P S A I K P A Q S F T A N G M E D F V T P R A L L E T S E V A G I V T  
S A I A A K G H V S L L R P M R P Y P V P R A L L S L D E I P S L V E  
P S A V A V P G E M W T D A L G T Q P H P V P R E M S E T D I A Q S I A  
S A T R A P G Q A H T Y E G K Q D Y D E A R P L S A D E I P R L I E  
S A I A I D G E T R T Y D G K K P Y P V P R A L L T T D E I P S V L E  
P S D M T A A G D M W T D A E G M K P H T Q P H A L L T T E E V K A T I Q  
A T A G P G D A H T Y E G K K P Y E Q A R P L A L D E I P G V I A  
S E I A A D G H V S L L R P E R P F V V P R A L L A N E I P G I V E  
S T D K G I T P G F E G V E W S P P R R L R A D E I P A V I D  
P S P I A Q K V K A F I Q T G P G T G A L V G P S V P R R E L R V A I G E L V G  
P S A I A A H T K T Y I I E A D G K G S F V P T S T P R A L D I E E I P G L V E

QUERY	170	180	190	200
UniRef90_A4TIR1	D D F R Q A V A N A R E A A G F D D L V E L	H S A A H G Y L L H H Q Q F F M A S P S S N Q R T D		
UniRef90_Q1QEB8	D D F R Q A T A N A K E A A G F D D G V E I E L	H G A A H G Y L L H H Q Q F F M A S P S S N Q R T D		
UniRef90_V9WLN1	D D F R L A G A N A N A K E A A G F D D G V E I E L	H G A A H G Y L L H H Q Q F F M A S P S S N Q R T D		
UniRef90_B7VU07	D D F A E S A K K A V E A A G F F D G V E I E L	H G A G N G Y L L I D D Q Q F F L R T S N S N K R R T D		
UniRef90_B7V4S4	E F F V R A A R N A L D A A G F F D G V E I E L	H G A A H G Y L L I H H Q Q F F L T A P S A S N N Q R R E D		
UniRef90_R9V2R1	D D F R Q A A V N A R A A A G F F D G L V E I E V	H S A A N G Y L L I D D Q Q F F L Q T S T N N R R R E D		
UniRef90_W9H944	D D F R K A A V N A R A A A G F F D G L V E I E V	H S A A N G Y L L I D D Q Q F F L Q T S T N N R R R E D		
UniRef90_E6WTD8	Q Y A Q A T R R A D R K A A G F F D G L V E I E V	H G A A N G Y L L I D D Q Q F F L Q T S T N N R R R E D		
UniRef90_B7RHB8	D Y R V H A A T K M A K K A A G F F D G L V E I E V	H G A A N G Y L L I D D Q Q F F L K T S T N N R R R E D		
UniRef90_Q0JZ81	E F R R Q A A R N A M A A A G F F D G V E I E L	H A A N G Y L L V N Q Q F F L D S E A N N R R T D		
UniRef90_R7Y2G4	D Y R R R A L L N A R E A A G F F D G V E I E L	H G A H G Y L L I H H Q Q F F L A S A N S N E R T D		
UniRef90_U5VCV8	D Y R H A A L N A R E A A G F F D G V E I E L	H A A N G Y L L I H H Q Q F F L A S A N S N E R T D		
UniRef90_UPI0002DFABCA	E Y R Q A A L N A R E A A G F F D G V E I E L	H A A N G Y L L V N Q Q F F L D S E A N N R R T D		
UniRef90_UPI00036D9BC9	D Y R R A A L N A R E A A G F F D G V E I E L	H A A N G Y L L I H H Q Q F F L R A S A N S N E R T D		
UniRef90_E9USS3	D Y R R A T R N A R E A A G F F D L V E I E L	H A A H G Y L L I H H Q Q F F L A S A N S N E R T D		
UniRef90_V8R784	D Y R R A A R N A L N A A G M D G V E I E L	H A G N G Y L L I D D Q Q F F L N S S N S N Q R R T D		
UniRef90_UPI0003614ADD	D Y R K A A R A A L E D A A G F F D G V E I E L	H S A N G Y L L I D D Q Q F F L R S G N T N H R T D		
UniRef90_L8N043	Q Y R L G A K N A L E A A G F F D G V E I E L	H S A N G Y L L I D D Q Q F F L R S Q D N T N H R T D		
UniRef90_W8X2Z9	A Y R K G A E N A R A A A G F F D G V E I E L	H A A N G Y L L I D D Q Q F F L Q S S R S N R R T D		
UniRef90_Q11Z93	E F A Q G A K N A V I E A A G F F D G V E I E L	H G A N G Y L L I E Q Q F F L P N S N V N A R T D		
UniRef90_W9V8B2	E F A R S A G L A I E A A G F F D G V E I E L	H A A N G Y L L I E Q Q F F L N P N V N A R T D		
UniRef90_UPI00045EB559	S Y R Q G A R N A L V A A G F F D G V E I E L	H G A N G Y L L I E Q Q F F L H T R S N Q R R T D		
UniRef90_UPI00042B38D0	D F R T A A R N A M E A A G F F D G V E I E L	H G A H G Y L L I D D Q Q F F L K D S E S N D R T D		
UniRef90_V9ZW52	Q D Y R Q A A R N A M E A A G F F D G V E I E L	H A A N G Y L L I D D Q Q F F L R D G S V N D R T D		
UniRef90_B3PUW8	D Y R K A A R A A T D A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L R D G S V N D R T D		
UniRef90_K9TVC9	Q Y R Q G A K N A L A A A G F F D G V E I E L	H S A N G Y L L I D D Q Q F F L H D G S V N H R T D		
UniRef90_B6BC67	D F V Q A K Y A R D A A G F F D G V E I E L	H A A N G Y L L I D D Q Q F F L K D G V N T R T D		
UniRef90_UPI0002EC5E11	A Y R T G A E N A K A A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L Q S S T S N H R T D		
UniRef90_RODNG8	D Y R L A A R N A K A A A G F F D G V E I E L	H S A N G Y L L I D D A F F L R S T S N H Q R A D		
UniRef90_UPI000237EA07	L Y A K A R N A L D A A G F F D G V E I E L	H S A N G Y L L I D D A F F L R S T H T N H R E D		
UniRef90_Q7NSC5	D Y R R A A D N A R R A A G F F D M V E I E L	H G A H G Y L L I D D Q Q F F L S P A S N V R T D		
UniRef90_X7EAN5	D Y R K A A E N A K K A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L K D S A N K R R T D		
UniRef90_Q84QK0	D F R R A A R N A T E A A G F F D G V E I E L	H G A H G Y L L I D D Q Q F F L M K D S A N H R T D		
UniRef90_G7UW11	D Y R T A A R N A T I G A A G F F D G V E I E L	H A A N G Y L L I D D Q Q F F L K D G S N H R T D		
UniRef90_M5XSJ3	D F R L A A R N A L E A A G F F D G V E I E L	H G A H G Y L L I D D Q Q F F L M K Q V N D R T D		
UniRef90_E1T9N0	D F V H A A K N A M A A G F F D G V E I E L	H G A N G Y L L I E Q Q F F L M K Q E K T N Q R T D		
UniRef90_UPI00046717D5	D Y R K A A R N A K E A A G F F D G V E I E L	H A N G Y L L I D E F F L R D G S N K R R E D		
UniRef90_A6VRT0	D F R Q A A L N A K E A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L R D E S S N K R R E D		
UniRef90_UPI0002378B7F	D Y R R A A E N A K E A A G F F D G V E I E L	H A A N G Y L L I D D Q Q F F L R D E S S N K R R E D		
UniRef90_UPI00039A5BCA	E Y A A S A V R A R R A E F F D L V E I E L	H S A N G Y L L I N Q Q F F L D V R A N S R R R D		
UniRef90_G8LQD4	D F V H S A R L A M E A A G F F D G V E I E L	M A A N G Y L L I F E N Q Q F F L D S S E S N T R T D		
UniRef90_N9V5A8	E F R Q A A R N A M A A A G F F D G V E I E L	H G A N G Y L L I N Q Q F F L K D G A N Q R R T D		
UniRef90_I3AGA9	D F R Q A A N A T A A A G F F D G V E I E L	H G A N G Y L L I N Q Q F F L K D G A N Q R R T D		
UniRef90_K8X0Z6	D Y R V Q A A R N A L E A A G F F D G V E I E L	H S A N G Y L L I N Q Q F F L D S S R E N H R T D		
UniRef90_S2FQM9	M Y R V J A A R N A K K A A G F F D G V E I E L	H S A N G Y L L I N Q Q F F L S E H T N H R T D		
UniRef90_A3XGD7	D F V N A A K N A T E A A G F F D G V E I E L	H S S N G Y L L F H Q Q F F N K N A N V R T D		
UniRef90_A9SM89	D F R K A A R N A I E A A G F F D G V E I E L	H G A H G Y L L I D D Q Q F F L K D S G T N D R S D		
UniRef90_UPI000349823B	D Y R H A A R C A L E A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L R D D S G T N D R S D		
UniRef90_G8NVB4	E F R K A A W N A K A A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L Q D G T N K R R T D		
UniRef90_E8ZF56	D Y R R A A L A A V E A A G F F D G V E I E L	H A A N G Y L L I D D Q Q F F L K T G A N Y R K D		
UniRef90_UPI00030F6656	D Y V N A S V L A V E A A G F F D G V E I E L	H G A N G Y L L I E Q Q F F L N P G S N R R K D		
UniRef90_UPI0003054B8E	E Y R Q A T R R A L E A A G F F D G V E I E L	H G A S G Y L L P E Q Q F F L S S G S N R R D D		
UniRef90_C6DDR0	L Y R E A A K N A M R A A G F F D G V E I E L	H S A N G Y L L I D N Q Q F F L S E H T N H R T D		
UniRef90_UPI00036975B6	A Y R L G A E N A R A A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L Q D S T N Q R S D		
UniRef90_K8P2M9	S F R E G A R N A L E A A G F F D G V E I E L	H G A N G Y L L I E Q Q F F L Q S S R T N Q R T D		
UniRef90_F4KRP2	A Y R Q A A Q N A K I E A A G F F D G V E I E L	H A A F G Y L L P E Q Q F F L S D S S N Q R Q D		
UniRef90_UPI00035E116D	D F K Q A A K N A V E A A G F F D G V E I E L	H A S N G Y L L I H H Q Q F F N S S S N Q R T D		
UniRef90_UPI0003A15045	D Y R Q A A R N A M A A A G M D G V E I E L	H A G N G Y L L I D D Q Q F F I N S A S N H R Q D		
UniRef90_D4I255	L Y R Q A A V N A K A A A G F F D G V E I E L	H A A N G Y L L I N Q Q F F I S S H T N F R S D		
UniRef90_I5BY58	D Y Q Q A A K R A M E A A G F F D G V E I E L	H A A N G Y L L I H H Q Q F F S R T S N F S V D		
UniRef90_F7QJF1	S F K R A S A N A L E A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F A K D G S N K R T D		
UniRef90_Q2BRN6	G F K Q A A L N A K E A A G F F D G V E I E L	H G A N G Y L L I D D S F F L R D S S N K R Q D		
UniRef90_UPI00041GSG0	A Y R L G A E N A K K A A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L R D D S T N R T D		
UniRef90_A0B1H2	A Y R K G A E N A K A A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L Q D D S T N R R T D		
UniRef90_B3E9H7	E Y V L A A R N A L A A A G F F D G V E I E L	H G A N G Y L L I N Q Q F F L N P G A S N T R T D		
UniRef90_UPI0002DA16C3	D F V S A A Q R N A M D A A G F F D G V E I E L	H G A N G Y L L I F E Q Q F F L N G A L N T R T D		
UniRef90_UPI00036E07F8	A F R Q G A E N A R A A A G F F D G V E I E L	H A A N G Y L L I D D Q Q F F L Q D S S N K R T D		
UniRef90_E8X3M9	E F R Q G T Q N A K D A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L H S S N E R R D D		
UniRef90_B4CYJ5	A Y R R G A E N A Q R A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L Q D S T N H R T D		
UniRef90_M1BMA8	D F R L A A R N A T E T G F F D G V E I E L	H G A H G Y L L I D D Q Q F F L M K D Q V N D R T D		
UniRef90_W0ADJ9	D F A Q A A R N A R E A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L Q D D S N R R E D		
UniRef90_I3X3Z1	D F R R A A N A T A A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F A K D G S N V R T D		
UniRef90_Q76FS0	D F K L A A R N A L E A A G F F D G V E I E L	H G A H G Y L L V D D Q Q F M K D K V N D R T D		
UniRef90_D5ATQ6	D Y G H A A Q L A K Q A A G F F D G V E I E L	H G A N G Y L L I E Q Q F F L R A T S N K R S D		
UniRef90_E3F0B9	D F A L A A E N A T K A A G F F D G V E I E L	H G A N G Y L L I E Q Q F F L R A T V N D R R D		
UniRef90_UPI00047A7CEA	E Y V Q A A K N A T K A A G F F D G V E I E L	H A A N G Y L L I D D Q Q F I N T A S N K R S D		
UniRef90_S2J1A8	E Y A Q A A K N A I E A A G F F D G V E I E L	H G A N G Y L L I E Q Q F I N N G A S N N R T D		
UniRef90_K2SRT8	D Y V T A A Q N A L D A A G F F D G V E I E L	H G A N G Y L L P E Q Q F I N G A L N D R N D		
UniRef90_B2TCR4	D F R K A A A N A H L A A G F F D G V E I E L	H A A N G Y L L I D D Q Q F F L Q S K S N A R T D		
UniRef90_F6F372	S Y A A A A R L L V D A A G L D G V E I E L	H G A S G Y L L P E Q Q F F L S S S N T N L R N D		
UniRef90_L9PIM9	E Y R L A T R R A L E A A G F F D G V E I E L	H A A S G Y L L P E Q Q F F L S S S G S N L Q R S D		
UniRef90_UPI00029A41FC	A F R V G A Q N A K A A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L Q D S T N H R A D		
UniRef90_UPI00037DAEEA	E Y A T S A K L A M L A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F L N T A S N Q R N D		
UniRef90_Q9Z3T1	D Y E H A A K N A M A A A G F F D G V E I E L	H A A N G Y L L I D D Q Q F L R D N S N V R R G D		
UniRef90_UPI00036DB990	E F V Q G A K N A T A A A G L D G V E I E L	H S A N G Y L L I H E F F L S P A S N Q R R D D		
UniRef90_UPI00047CCAF1	E Y V N A A K L A L D A A G F F D G V E I E L	H A A N G Y L L I E Q Q F F L N G D V V N R R K D		
UniRef90_UPI0004117324	D Y V R A A K N A J A A A G F F D G V E I E L	H A A N G Y L L I D D Q F F L R D G S N H R R D D		
UniRef90_C7BNR9	A F R R G A E N A K T A A G F F D G V E I E L	H G A N G Y L L I D D Q Q F F L Q D N A N R K D		
UniRef90_S8CZ56	D F R L A A R N A T E A A G F F D G V E I E L	H G A S G Y L L I E Q Q F F L K A D G V N D R T D		
UniRef90_B1G5A9	L Y A K A A Q N A L R A A G F F D G V E I E L	H A A N G Y L L I E Q Q F F L R A H S N R R E D		
UniRef90_A1K8Y0	D Y R R A A R A I E A A G F F D G V E I E L	H A A N G Y L L I D Q Q F F L R A G S N Q R T D		

QUERY	210	220	230	240
UniRef90_A4TIR1	QYGGGS	VLENNR	RRARLR	LTLLA
UniRef90_Q1QEB8	EYGGGS	RENNR	RRARLR	MLLRA
UniRef90_V9WLN1	AYGGGS	QRENNR	RRARLR	FLRLA
UniRef90_B7VU07	AYGGGS	QRENNR	RRARLR	FLRLA
UniRef90_B7V4S4	AYGGGS	LIENNR	RRARLR	FLRLA
UniRef90_R9V2R1	RYGGGS	SIENNR	RRARLR	FLRLA
UniRef90_W9H944	QYGGGS	AIENNR	RRARLR	FLRLA
UniRef90_E6WTD8	QYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_B7RHB8	QYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_Q0JZ81	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_R7Y2G4	SYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_U5VCV8	PYGGGS	YRNNR	RRARLR	LLMLA
UniRef90_UPI0002DFABCA	EYGGGS	AENNR	RRARLR	FLRLA
UniRef90_UPI00036B9BC9	RYGGGS	ADNNR	RRARLR	FLRLA
UniRef90_E9USS3	SYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_V8R784	AYGGGS	GNVLEN	RRARLR	FLRLA
UniRef90_UPI0003614ADD	EYGGGS	PIENNR	RRARLR	FLRLA
UniRef90_L8N043	IYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_W8X2Z9	AYGGGS	PLVENNR	RRARLR	FLRLA
UniRef90_Q11Z93	GYGGGS	AIENNR	RRARLR	FLRLA
UniRef90_W9V8B2	AYGGGS	DAIENNR	RRARLR	FLRLA
UniRef90_UPI00045EB559	IYGGGS	SIENNR	RRARLR	FLRLA
UniRef90_UPI00042B38D0	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_V9ZW52	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_B3PUW8	QYGGGS	SIENNR	RRARLR	FLRLA
UniRef90_K9TVC9	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_B6BC67	AYGGGS	PEENNR	RRARLR	FLRLA
UniRef90_UPI0002EC5E11	QYGGGS	VLENNR	RRARLR	FLRLA
UniRef90_RODNG8	AYGGGS	VLENNR	RRARLR	FLRLA
UniRef90_UPI000237EA07	EYGGGS	VLENNR	RRARLR	FLRLA
UniRef90_Q7NSC5	QYGGGS	VLENNR	RRARLR	FLRLA
UniRef90_X7EAN5	DYGGGS	YQENNR	RRARLR	FLRLA
UniRef90_Q84QK0	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_G7UW11	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_M5XSJ3	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_E1T9N0	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_UPI00046717D5	AYGGGS	PAENNR	RRARLR	FLRLA
UniRef90_A6VRT0	EYGGGS	VLENNR	RRARLR	FLRLA
UniRef90_UPI0002378B7F	EYGGGS	PLVENNR	RRARLR	FLRLA
UniRef90_UPI00039A5BCA	EYGGGS	VLENNR	RRARLR	FLRLA
UniRef90_G8LQD4	EYGGGS	VLENNR	RRARLR	FLRLA
UniRef90_N9V5A8	RYGGGS	ALDENNR	RRARLR	FLRLA
UniRef90_I3AGA9	IYGGGS	AIENNR	RRARLR	FLRLA
UniRef90_K8X0Z6	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_S2FQM9	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_A3XGD7	DYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_A9SM89	KYGGGS	MEENNR	RRARLR	FLRLA
UniRef90_UPI000349823B	AYGGGS	TEENNR	RRARLR	FLRLA
UniRef90_G8NVB4	SYGGGS	PIENNR	RRARLR	FLRLA
UniRef90_E8ZF56	AYGGGS	PIENNR	RRARLR	FLRLA
UniRef90_UPI00030F6656	EFGGGS	PIHENNR	RRARLR	FLRLA
UniRef90_UPI0003054B8E	AYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_C6DDR0	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_UPI00036975B6	RYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_K8P2M9	QYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_F4KRP2	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_UPI00035E116D	EYGGGS	PLENNR	RRARLR	FLRLA
UniRef90_UPI0003A15045	NYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_D4I255	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_I5BY58	AYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_F7QJF1	AYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_Q2BRN6	NYGGGS	GNVLEN	RRARLR	FLRLA
UniRef90_A0A031GSG0	NYGGGS	VLENNR	RRARLR	FLRLA
UniRef90_A0B1H2	AYGGGS	PLENNR	RRARLR	FLRLA
UniRef90_B3E9H7	EYGGGS	DAACENNR	RRARLR	FLRLA
UniRef90_UPI0002DA16C3	EYGGGS	AIENNR	RRARLR	FLRLA
UniRef90_UPI00036E07F8	AYGGGS	PIENNR	RRARLR	FLRLA
UniRef90_E8X3M9	EYGGGS	PIENNR	RRARLR	FLRLA
UniRef90_B4CYJ5	EYGGGS	PIENNR	RRARLR	FLRLA
UniRef90_M1BMA8	QYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_W0ADJ9	GYGGGS	SIENNR	RRARLR	FLRLA
UniRef90_I3X3Z1	AYGGGS	AIENNR	RRARLR	FLRLA
UniRef90_Q76FS0	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_D5ATQ6	GWGGGS	PLVENNR	RRARLR	FLRLA
UniRef90_E3F0B9	IYGGGS	LLENNR	RRARLR	FLRLA
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UniRef90_S2J1A8	IYGGGS	TEENNR	RRARLR	FLRLA
UniRef90_K2SRT8	EYGGGS	CENNR	RRARLR	FLRLA
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UniRef90_L9PIM9	QYGGGS	PIENNR	RRARLR	FLRLA
UniRef90_UPI00029A41FC	RYGGGS	SIENNR	RRARLR	FLRLA
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UniRef90_Q9Z3T1	AYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_UPI00036DB990	AYGGGS	TEENNR	RRARLR	FLRLA
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UniRef90_C7BNR9	QYGGGS	AIENNR	RRARLR	FLRLA
UniRef90_S8CZ56	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_B1G5A9	EYGGGS	LLENNR	RRARLR	FLRLA
UniRef90_A1K8Y0	AYGGGS	SIENNR	RRARLR	FLRLA

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250 260 270 280

NVDNNGPNEE250 ADAALYLIIEELAKRGRIAYLHLMSEETDLAAGGKPY UniRef90\_A4TIR1 GLDNGEDQEEAALYLIIDQLNKRNIAYYLHLMSEETDVAAGGKPY UniRef90\_Q1QEB8 NVEAGYNEEDENIWLLEQLNQRRAIAYYLHLMSEETDVAAGGKPY UniRef90\_V9WLN1 NMVADDEITIEVINLKAATAMNDIGIAYYLHLMSEETDVAAGGKPY UniRef90\_B7VU07 DMNCPIVPTLLEASKELQARRNIAYYLHLMSEETDVAAGGKPY UniRef90\_B7V4S4 DMHNDPEEAMTLYLAEALQRRRGIAYYLHLMSEETDVAAGGKPY UniRef90\_R9V2R1 GVDNGEDDQEAAAGLYLIREALAKRNLAYYLHLMSEETDVAAGGKPY UniRef90\_W9H944 DMHDDNPGALFDHVTAEELGKRGLAYLHLMSEETDVAAGGKPY UniRef90\_E6WTD8 HDLADENPEEESALYLAAREFTRRRGLAYLHLMSEETDVAAGGKPY UniRef90\_B0JZ81 DVDDENPQETTFEYVLPQGLNRYGLAYLHLMSEETDVAAGGKPY UniRef90\_R7Y2G4 NGCVDADPETTYAAAKLLELGVGYIHLHLMSEETDVAAGGKPY UniRef90\_U5VCV8 GTTDDPSGAEAGLYVAGELAQRRNLAYLHLMSEETDVAAGGKPY UniRef90\_UPI0002DFABCA GMGDDTPLETFTYIVESLNRNYGLAYLHLMSEETDVAAGGKPY UniRef90\_UPI00036D9BC9 NGTVDKTPVETTYTAAAVLLNKLNVVYLIHLHLMSEETDVAAGGKPY UniRef90\_E9USS3 GMTDPEEAPALTLKAAAEISNRRALAFIHLHLMSEETDVAAGGKPY UniRef90\_V8R784 GLEEDPEEAGMGLYLAAEISNKRGLAFIHLHLMSEETDVAAGGKPY UniRef90\_UPI0003614ADD GMGDDTPEATFGYLVAEALNQWNLAYLHLMSEETDVAAGGKPY UniRef90\_L8N043 DSSDDPDAQAALFQYKLAAYLHLMSEETDVAAGGKPY UniRef90\_W8X2Z9 SMYDSDNRQAALFQYVAVLNHFLVVEGATGGPRDFEQGKSA UniRef90\_Q11Z93 DMGDDRPEETFGYVAEALGRRGIAYLHLMSEETDVAAGGKPY UniRef90\_W9V8B2 DMPLYDEAMQADYTLWAQQLNARGVYIHLHLMSEETDVAAGGKPY UniRef90\_UPI00045EB59 ATGDDEEVDQAQYLAALCQGLLGLYLAHLHLMSEETDVAAGGKPY UniRef90\_UPI00042B38D0 DVGDAADPIALYRHLVLTTRLAELDVAAYAHLMSEETDVAAGGKPY UniRef90\_V9ZW52 EAVDADPKKALALYMLVEALNKGYLHLMSEETDVAAGGKPY UniRef90\_B3PUW8 GTVVDANPQETTYLAATAKLLGEGIVYLIHLHLMSEETDVAAGGKPY UniRef90\_K9TVC9 ESYDSDNPGATFAHVAKGLAKYDLAYLIHLHLMSEETDVAAGGKPY UniRef90\_B6C67 SVYDSDDLKALFYTVVVDALNSYFELAYLHLMSEETDVAAGGKPY UniRef90\_UPI0002EC5E11 DVS DSDPVGHTYIQRRLNSYGLAYLHLMSEETDVAAGGKPY UniRef90\_RODNG8 DMGDENLAEETFGYVASELGRGIAYLHLMSEETDVAAGGKPY UniRef90\_UPI000237EA07 GMDDDPDAQALTLTAKKLDQGLAYLIHLHLMSEETDVAAGGKPY UniRef90\_Q7NSC5 NEDRVPDHTTYIEAIKVLLEKVGVAIVSILHLMSEETDVAAGGKPY UniRef90\_X7EAN5 GVSNTDQQLDMALYLAELQAKRKLAFIHLHLMSEETDVAAGGKPY UniRef90\_Q84KQ0 NDA DSDPVALGSAEALVDALNKRHLHLMSEETDVAAGGKPY UniRef90\_G7UW11 DCF DSDPVALGSAEALVDALNKRHLHLMSEETDVAAGGKPY UniRef90\_M5XSJ3 DAH DSDNQPFLFERAVQERLEALIGGLAFVHLMSEETDVAAGGKPY UniRef90\_E1T9N0 ESAGSDNPKALGLYMSKSLNSYGLIYHLMSEETDVAAGGKPY UniRef90\_UPI00046717D5 DSGENDPPLPQLYHLLRRLASIDLAAYLHLMSEETDVAAGGKPY UniRef90\_A6VRT0 DMS DSDPQSVFQYFVIERLAEKKLIGFLHLMSEETDVAAGGKPY UniRef90\_UPI0002378B7F SMRENDPVTWTRFHLVSEHLNNGYFNLAYLHLMSEETDVAAGGKPY UniRef90\_UPI00039A5BCA NIS DSDPQATWTRFHLVSEHLNNGYFNLAYLHLMSEETDVAAGGKPY UniRef90\_G8LQD4 DMTVEASWE TALLYAAAEELDKRKLAYLHLMSEETDVAAGGKPY UniRef90\_N9V5A8 DLJAPYEDEKEITWASTIAAALGQRELAAYLHLMSEETDVAAGGKPY UniRef90\_I3AGA9 NGTVADADPEKQTYTAAARALGEGVYVYLIHLHLMSEETDVAAGGKPY UniRef90\_K8X0Z6 AITSSDPPQGTQDYLDVQLNNTLGIYVYLIHLHLMSEETDVAAGGKPY UniRef90\_S2FQM9 GSEDADPEATYLAATAAVLNEIGVYVYLIHLHLMSEETDVAAGGKPY UniRef90\_A3XGD7 TEERVYDPHGTYLRAASMLNDLGVGYLHLMSEETDVAAGGKPY UniRef90\_A9SM89 GIEATEETIPTFDHIIVIERLNNDLAYLHLMSEETDVAAGGKPY UniRef90\_UPI000349823B SYGATDSDATGLS VFLAETLNRYNLAYLHLMSEETDVAAGGKPY UniRef90\_G8NVB4 DVGQDSDNAQGLFAVAVAGVLA P MKLAYLHLMSEETDVAAGGKPY UniRef90\_E8ZF56 AMF DSDPEATFGYVAVDRLNRYALAYLHLMSEETDVAAGGKPY UniRef90\_UPI00030F6656 DTV DADPPQLFQYVVRQLGLGLAYLHLMSEETDVAAGGKPY UniRef90\_UPI0003054B8E DMSAYPEMETYHYLVAELAVELNKLKPVYLAHLHLMSEETDVAAGGKPY UniRef90\_C6DDR0 SIV DADAPQETTYTYLVDQLRGRGLAYLHLMSEETDVAAGGKPY UniRef90\_UPI00036975B6 QEDRTYDPHDTYLQAAEMLNEGLIAYLSILAEADWE NCPYEM UniRef90\_K8P2M9 DMG DSDNRADTFGYVARELGRRGVAFLCAREYFGDDRLLGPE UniRef90\_F4KRP2 DTGEADPMPLYGHVVKALGTRGLAYLHLMSEETDVAAGGKPY UniRef90\_UPI00035E116D SVL DSDNPPALYGYLVTKRLNRYKLAAYLHLMSEETDVAAGGKPY UniRef90\_UPI0003A15045 GMTLNNEETLPTHDYIJKLNNYQLAYLHLMSEETDVAAGGKPY UniRef90\_D4I255 GMG DTDTPEDTFGYIVGRLENEWPLAYLHLMSEETDVAAGGKPY UniRef90\_I5BY58 DEEREQDPHATYLAATAAKMLNDEMAVGYLHLMSEETDVAAGGKPY UniRef90\_F7QJF1 GMTLDEETLPTFDYIIEQLNRYKLAAYLHLMSEETDVAAGGKPY UniRef90\_Q2BRN6 DVS DSDNPPQLFDHIIVDQLNALKLVYLIHLHLMSEETDVAAGGKPY UniRef90\_A0A031GSG0 SMS DSDPEGHTRWLAKQLNGRNLAYLHLMSEETDVAAGGKPY UniRef90\_A0B1H2 DMG DSDPRATFGYVARELGRRGIAFLCAREYFGDDRLLGPE UniRef90\_B3E9H7 TMG DSDPAATFGYVARELGRRKIAFI FTRESYSGDQLSPR UniRef90\_UPI0002DA16C3 EMS GAYDGLAQDYVALAAAGGLGLTYLHLMSEETDVAAGGKPY UniRef90\_UPI00036E07F8 DMHYPPEEAQDWLSLATENTRNLAAYVHLMSEETDVAAGGKPY UniRef90\_E8X3M9 DMG DSDPAAVFSFVAVASALSARDIAFLCAREYFGDDRLLGPE UniRef90\_B4XJ5 SMS DSDNHEAFTVYLAAGLGLGLAFIHLHLMSEETDVAAGGKPY UniRef90\_M1BMA8 DMG DSDNPAHTFGYVARELGRRIAFLCAREYFGDDRLLGPE UniRef90\_W0ADJ9 DSG DSDNSAALGLLYMAESLNKYGIAYLHLMSEETDVAAGGKPY UniRef90\_I3X3Z1 GMG DSDPALNLYAHVGTGLGRGLAYLHLMSEETDVAAGGKPY UniRef90\_Q76FS0 GVS TSDPQAQFDYIVJELDQGLGIYVYLIHLHLMSEETDVAAGGKPY UniRef90\_D5ATQ6 ESG DSDNPAALGLLYMVNA LNKYNI LYHLMSEETDVAAGGKPY UniRef90\_E3F0B9 NGL DSDT PALFGAALJALNDRPLAFVHLMSEETDVAAGGKPY UniRef90\_UPI00047A7CEA GMA GYEGEGETYLVALARALS RGLAYVHLMSEETDVAAGGKPY UniRef90\_S2J1A8 DMEAFDDLEEAYKYLAHELSSHLKLAAYLHLMSEETDVAAGGKPY UniRef90\_K2SRT8 GMA TDNVEETWGYLVKHHPLGLAYLHLMSEETDVAAGGKPY UniRef90\_B2TCR4 DMHPFADEAETWLAALAAELSLRKLAYVHLMSEETDVAAGGKPY UniRef90\_F6F372 DM DDEDEPQTF SQVVDMLNGLFRGLAYLHLMSEETDVAAGGKPY UniRef90\_L9PIM9 HDK HDEDEPVALYATHVARM LSDRGLAYVQVSDYGYYS HAG UniRef90\_UPI00029A41FC DDK DSDNPAVETTYAVLVRQLA PLNLAAYLHLMSEETDVAAGGKPY UniRef90\_UPI00037DAEEA DMG DSDNPAATFGYVIRELNQRKIAFVYHLMSEETDVAAGGKPY UniRef90\_Q9Z3T1 A QV DADAE MNTLYLRLLDLENA LGLLYLIHLHLMSEETDVAAGGKPY UniRef90\_UPI00036DB990 GVD DSDNPPPLFSAAKALDEI GLAHLELREPGYEFKAD UniRef90\_UPI00047CCAF1 D L E T DRDDVHA T Y A A L V K G I A P L G L A F L S V L H K D P S G E L UniRef90\_UPI0004117324 D I P A Y N E V T E T Y D Y L S K K L N D L G V A Y L H F L D H S P N G L D L V UniRef90\_C7BNR9 G V D D S N P S A L F T A A A D V L L Q Q I G L A F L R E P D G S F G R T D UniRef90\_S8CZ56 S M E D S N P V M T F G Y V A R E L G K R G I A F I F S R D S V T E G UniRef90\_B1G5A9 E S E D S D P T N L A Y H L A T A L N D L D L Y L H V I E P R A N R G D K Y UniRef90\_A1K8Y0 D Q D R V D P H H T Y I E A I K V L E A A G A Y V S I A E A D W N D P D L D I A D P D P Q P L F T H V V E Q L A R W P L A Y V H V I E F Q Q G D Q P F D Y

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S E A F R Q K V R E R F H G V I I V G A G G A Y T A E K A E D L I G K G L I D A V A  
S D T F R Q R V R R D A F D G Q T I I V A A G G A Y T A E K A E E K L I Q K G F I D A V A  
S D A F R Q R V R R D A F D G Q T I I V A A G G A Y T A E K A E E K N I K S D G Y L D A V A  
P D H F R H D L R R K A Y S G T A I I V A A G G A Y T A E K R G E K I V K A D G L A D A V A  
P E S F R V E L L R E R E L F S N T I I V A G S Y T P E R R A E E V L S K A G Y A D L V A  
P Q G F R R A L R R A A Y F R A P L I V A G G A Y T D A E R A E E D L I Q A G L A D A V A  
R D E F R Q A L R R A A Y P R A V I A A G G A Y T A E R A E D L I Q R G L L D A V A  
A P D A S S R F K K I F G G T I I A A G G F T R E T A P E A V A E G K A D L V A  
S D R F R A Q L R R E A F D G G V L V F C G G Y D R A E D L I A S D G V A D A V A  
E G E S I A L L R K M F D G L Y M A N N G Y D R D L A I K T V A S D G A V D L V A  
P A A F K Q R L R E V Y R G T L I Y A G K Y T A E R A Q A A L N E G W A D L I A  
S D D Y R R S L R R D A H P G V I V G A G G Y D A A A K A T R L L S E G L I D A A A  
W D E I L L T L R R D T W K G V L V I A G G Y D A A S P E K A I R D G R A D V V A  
P T V F K H N V R E V Y Q G V I I Y A G K Y T D G D K A E Q A V K D G L A D M I G  
P P A F R Q A L R R A A F S G S I I V A G G A Y T A E K A E A L L A S G L A D A V A  
T D D Y R K Q L R R A A H P G P I V A A G A Y T P E K A S R L E A D L I D A A A  
W D A I I A Q L R R Q T W N G V L I L A G G Y D A E S A E Q A L N A D R A D I I A  
K A L R E A Y E F R A G G K A A W M T N N G Y D R F E L A I E A V E S Q G K T D L V A  
P D L N A D F F Q A G N G T I T A T A N N G Y D R F E T G N E A I A S D G A D L V A  
P D S L A P M M R G K F P G R F I A N E A F D Q D K A A D W L A R G R A D A V A  
P D A M K A A F R Q L F K G T L V L S G G Y D A A C A E G D L V A G K A D L V A  
P E E I K M Q L R R R F D G P F I L A G G F D R A S A E A A L S E D R A D L V A  
A P Q D V D Q L R P F W P K T L I L A G G F T G E S A E N A I R S G R A D A V A  
C S H T L Q G M R K A F N G T F I A A G K Y T K E D G N K A V A E N R A D L V T  
A E G F L K P L R D A F N P N T L I Y A G K Y D G E R A R A L Q A G W A D L I G  
K A L R Q A Y E K A G G K A N W M V N N G Y D R D L A V D V V E S G R A D L V A  
S E L S S K Y F R P I Y K G T L I S A G G Y D R E S G N A V L A S G D A D L V A  
F D A L R K H Y T G T Y M A N N G Y D R E T A L A R T A S G E A D L V A  
Q L K A A F G G P Y I V N E R F T T E S A N A W I A E G K A D A V A  
P E S F R K E L R R A A Y S G S V L V A G G Y T P D M A V A I N S G Y A D A V A  
P E S F R A D V R K N F S G R V L Y A G R Y T P E R G V R V V K A G W G D L I A  
D D G F R A E L R Q R Y P G V I I G A G G Y S A E K A E T L L K K G F I D A A A  
V P D D L R S L K D R L G T T W F A N N G Y D R D L A I D R V E S G D A D L V A  
R A H G L L P F R K Q F N G T F I A A G G Y D R E E G N K V V A D G Y A D L V A  
I P F D Y V A L K S R F S G P W V V N N G Y D K A M A V A A L S E G R A D A V A  
T P D S L P M R E A F K G T F I A A G G F D R E D G R A N A V A E G R A D L V A  
V P S A S E L F R P L W Q V L I A A G N F T R E G A R N A V A D G H A D A I A  
A P F D Y L A L R K S F P G A Y I A N N A Y T L I E L A Q E T L A S G R A D L I A  
V V S V A R E Y Y K G H L M V N N M G Y T P E E A N Q V I A S N Q A D S V A  
E G G D L K A L Y E L F D G A K M G N A Y D R E M A V E A V E T G A V D L V A  
T E E E R R S L R H A F A P V L V F C G G Y D A V R A E A A I A A G V A D A I A  
P A G F K A A F R K A L P G G T V I A A G G F T R E L A E A I A E A D E L D L V A  
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P E E V R K N I R E N F E G T L I C G G D F D K K A N Q A L E N K T A D L I A  
S V D Y H A L L R A R F D G P Y L M G G G L V H D S A A A A L A E G R A D A T V  
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E D S L L D E L K T A F G G V Y I A N E R F T L E S A N A L L A E G R A D A V A  
V P S A M D L F R P L W P G V L I T A G G F T R E A A E D A V A S G K A D A I A  
I H N V S G H F R P L Y Q G T L I T N G G F N Q A R G N F L I E S G Q A D L I A  
E P N I A K R Y R P L Y K G T L I I N G G F D Q E K G N R V I E E G N A D L V A  
W D A I I R Q L R K T Y Q G V L M L A G G Y D G E S A E R A I A D G R A D I I A  
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H P Q I A Q R Y R P V Y K G T I I N A N F D Q E K G N A Y I L E G L A D A V A  
A P F D Y A S L R K R F S G T Y I A N N G Y D F K L A T E M L D Q N K A D L I A  
V I A A A N E F Y K G N L I G N M G Y N L E E A N R S V S A G D L T A V A  
L K E A F G G P L I A N E Q F T L D T A Q A A L A N G S A D A I A  
P E P M C R A F R A G G G A G V I L S G G Y D G E R A E A D L Q S G A D A I A  
P A G F A T A F R A G Y Q G T L I A A G G F N R A I A E T V L T Q G D L D L V A  
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E L K R A F G G V Y I A N E Q F T R E S A D Q I V S A G E A D A V A  
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210  
220  
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240



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E Y G G C F K G R T R L L T N I E T A E M R K A L N S P N A I G V R I S A T D W L  
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A Y G G S R E N R F R F P L E L A R E L R A I W P A D K P L F V R V S A V D G L  
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E F G G S F E N R A R F A R M V I D R I R K E V G P F F P I M M R F S A D E F I  
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UniRef90\_U1KMS2 L Y G G T L E N R M R L A I E V V R A V R E K V S A K F I I V F R L S V M D L T  
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UniRef90\_A4YDU0 R Y S D G V I N R F L E E E L I K E V R S R V S S D Y P V G L R L S V T E F D  
UniRef90\_R6FHS3 E Y G G S F E N R F R F A V E V V R A I K K E C G E D Y P V M L R Y S V T D M E  
UniRef90\_D8F9R4 D Y G G S L E N R K F P L M V L S R V K S A V G G D F P V G Y R F L A D E W L P  
UniRef90\_S5KAC9 E F G G C F E N R M R F L P R L I E S H I K R K R V H S L A L C R L N S T D G V  
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UniRef90_Q1QYW1	P D G L T H D D M K R L A A Y K D A T G M V D F F G V V G S G C D H T N L A N			
UniRef90_I2GGQ4	E E G A D M A R A L F A E V K K A A P D Y L H I A A E G G W G R E C V I A D G			
UniRef90_U1KMS2	P N G S T A E E V T E A G V D I L N T G I G W H E A R V P T I A S M V P A G A F			
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UniRef90_A4YDU0	D E G L T P E L V S K I L V S R V E T H L D Y V H D G P L G S S M P P I Y W K R P A			
UniRef90_R6FHS3	E S E K A K Y L Q D A G Y D A L D A N G T Y D S W Y W A H P P V I Y M P L C			
UniRef90_D8F9R4	D G L T L Q E S V P F A A Y I S V M G G T Y E S F F I P E M V E K C K A V A Y M			
UniRef90_S5KAC9	E G G L S V I Q D S A T V A A Y L E D C G L D G L H V S R S V H L R D E Y M W A P			
UniRef90_A0A031JRD7	A R A W P T P E D L A K F L K P L V I E A G V D I F H C S Q R R Y W E P E F P G S			
UniRef90_Q4PIL7	Q A H Q A D S W			
UniRef90_X2HAZ2	V P G I T F D D S L F L G L D K L A Q I G L D Y I H F S W A A T L R P S I I D S N			
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UniRef90_A0JY52	D G G I D A A A S V R L A S A A A E R G V D L V D V S S G H Q Q I P A G P G Y Q			
UniRef90_S0G5T2	K D G R D I E E G I E A A K L V A Y G Y D C L D V D V G S Y D S W W S H P Y			
UniRef90_M2C1C3	S G G S S L E D S V E A C L L F K K A G V D L L D I S G G F C G Y T N P E			
UniRef90_C7N279	C D E D L R L T S D E A V E I L A K L F E K A G L N Y I Q H R P D Y W N Y P E P D			
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UniRef90_R6TNA9	A G G S T V A D C V I E A C R I F E K S G H L T G G M N G Y V R P G H S E P G Y F			
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UniRef90_A3SMN0	H E G L E Q S D T L D A W A H I A D H A T L D Y G S V H I A P P M Y E E A G Y T			
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UniRef90_UPI00005103C9	E G G F D L A E			
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UniRef90_H3UQB8	E P G I R F E D T M F L L N T L A E Y E P D Y F H I S A N S Y Q R T S I V N Q E			
UniRef90_B8FKA1	K D G F S E E S M N V R V L E K E G I D M V E L S G G T Y E R P A M M E A Y			
UniRef90_H1LDS1	P G G F T K R M E S L G I N L I E I S G N Y A S P K M S T G T S K N S N D A F			
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UniRef90_C5AJX6	M G R Q L L A D P A L V D K L K A G			
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UniRef90_UPI00047E83BD	L G H A L I M D P D W L S K V Q K S R D Q E I Y			
UniRef90_UPI000248CBCE	L G K T V M V N P K I A T M I L N G Q E			
UniRef90_R61V4	I G R A A I L H H D F P E R A R D P A F R Q V P V P			
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UniRef90_B4R9G3	V G K A Y L V E P Q W T D K I S Q N E E V E Q F			
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P H L L F E Q T V L R G S L K L K N R R F R S A H D Y E G M A D E K G V L E A F S  
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UniRef90_N9C114	Q	W	G	G
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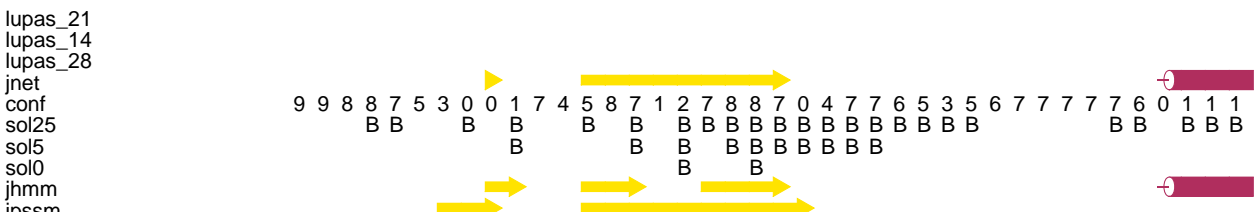
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